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522-1739

IN THE UNITED SOME TES PATENT AND TRADEMARK OFFICE

IN THE APPLICATION OF)	
Jan Spooren et al.)	Group Art Unit No. 2152
SERIAL NO: 09/838,728)	
FILED: April 19, 2000)	
FOR: SYSTEM AND METHOD FOR ON COPYRIGHT MANAGEMENT) I-LINE))	
	,	I hereby certify that this correspondence is bein deposited with the United States Postal Service as fir class mail in an envelope addressed to "Commissions of Patents, Washington, D.C. 20231", on August 12 2001.
·		

Name of person signing Phyllis Mallard

CLAIM FOR PRIORITY

Honorable Commissioner of Patents and Trademarks Washington, D.C. 20231

Dear Sir:

Under the International Convention, for the purposes of priority, applicant claims the benefit of GB Application No. 0009634.7, filed April 19, 2000.

A certified copy of said application is appended hereto.

DATE: August 13, 2001

Respectfully submitted,

William M. Lee, Jr.

Registration No. 26,935

LEE, MANN, SMITH, MCWILLIAMS

SWEENEY & OHLSON

P.O. Box 2786

Chicago, Illinois 60690-2786

(312) 368-1300

Fax (312) 368-0034









The Patent Office Concept House Cardiff Road Newport South Wales NP10 8QQ

I, the undersigned, being an officer duly authorised in accordance with Section 74(1) and (4) of the Deregulation & Contracting Out Act 1994, to sign and issue certificates on behalf of the Comptroller-General, hereby certify that annexed hereto is a true copy of the documents as originally filed in connection with the patent application identified therein.

In accordance with the Patents (Companies Re-registration) Rules 1982, if a company named in this certificate and any accompanying documents has re-registered under the Companies Act 1980 with the same name as that with which it was registered immediately before re-registration save for the substitution as, or inclusion as, the last part of the name of the words "public limited company" or their equivalents in Welsh, references to the name of the company in this certificate and any accompanying documents shall be treated as references to the name with which it is so re-registered.

In accordance with the rules, the words "public limited company" may be replaced by p.l.c., plc, P.L.C. or PLC.

Re-registration under the Companies Act does not constitute a new legal entity but merely subjects the company to certain additional company law rules.

Signed

Dated 11 JUN 2001







GB0009634.7

By virtue of a direction given under Section 30 of the Patents Act 1977, the application is proceeding in the name of

INFO2CLEAR NV Incorporated in Belgium Joseph Wybranlaan 40 B-1070 Brussels Belgium

[ADP No. 08053118001]

or committee o

1.44

(Rule 16)

19 APR 2000 RECEIVED BY FAX

Request for grant of a patent (See the motes on the back of this form. You can also get an explanatory leaflet from the Passes Office to trelp

you fll in this form)

19APR00 E530944-1 ALDOLZ P01/7700 0.00-0009634.7

> Cardiff Road Newport Gwent NP9 1RH

Your reference

I1511-GB

Parent application number (The Pateria Office will fill in this part)

3. Full name, address and postcode of the or of each applicant (undertine all surnames)

Patents ADP number (4 you know is)

If the applicant is a corporate body, give the country/state of its incorporation

)1 9 APR 2000

JOSEPH WYBRAN AND BELGIUM

BE

DAPPLICATION FILED

10-10.50

Title of the invention

THE INFO2CLEAR SYSTEM FOR ON-LINE COPYRIGHT MANAGEMENT

Name of your agent (if you have out)

"Address for service" in the United Kingdom to which all correspondence should be sent (including the postcode)

William E. Bird of Bird Goen & Co

Bird & Co c/o Jane Bird 9 Louise Court 11 Devonshire Road Bexleyheath Kent DA6 8DL United Kingdom

7764665001

Patents ADP number (4 you know it)

If you are declaring priority from one or more earlier patent applications, give the country and the date of filing of the or of each of these entier applications and (if you know is) the or each application number

Country

Procesy application number (if you knew it)

Dute of Hing (day / month / year)

If this application is divided or otherwise derived from an earlier UK application, give the number and the filing date of the earlier application

Number of endies application

Date of tiling (day / month / year)

is a statement of inventorship and of right to grant of a patent required in support of dais reducat; (wanter Yer If:

YES

- a) any applecane named in part 3 is not an inventor, or
- b) there is an inventor who is not named as an applicant, or
- c) any numed applicant is a corporate body. See more (a))

Pater Form 1/77

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 Do not count copies of the same document

THE PATENT OFFICE Scription
A

1 9 APR 2000

Abstract

11 sheets Inc. abotrect

3 sheets $\sqrt{}$

10. If you are also filling any of the following, state how many against each item.

Priority documents

Drawing(s)

Translations of priority documents

Statement of inventorship and right to grant of a patent (Patents Form 7/77)

Request for preliminary examination and search (Patents Form 9/77)

Request for substantive examination
(Paunts Form 10/77)

Any other documents (please specify)

I/We request the grant of a patent on the basis of this application.

Signature WILL

William E. Bird

19 April 2000

 Name and daytime telephone number of person to contact in the United Kingdom

0181-301-1129

JANE BIRD

Warning

11.

After an application for a patent has been filed, the Comptroller of the Patent Office will consider whether publication or communication of the invention should be prohibited or restricted under Section 22 of the Patents Act 1977. You will be informed if it is necessary to prohibit or restrict your invention in this way. Furthermore, if you live in the United Kingdom, Section 23 of the Patents Act 1977 stops you from applying for a patent abroad without first getting written permission from the Patent Office unless an application has been filed at least 6 weeks beforehand in the United Kingdom for a patent for the same invention and either no direction prohibiting publication or communication has been given, or any such direction has been revoked.

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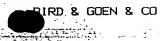
The Info2Clear System for On-line

Copyright Management

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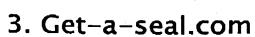
Info2Clear is a new service on the Internet, allowing on-line registration of intellectual property (through the service get-a-seal.com) and the on-line sale of the reproduction rights (through the service get-a-copy.com) of this intellectual property. This document provides an overview of how the system works.



17/04/2000	Jan S	First version
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3.1. Introduction

The get-a-seal.com service provides publishers with a certificate of possession of intellectual property. A publisher uploads digital content to the www.get-a-seal.com site. After on-line payment (or in case of registered publishers, after a record was written to the billing database for monthly invoicing) the publisher receives a time-stamped and signed certificate from Info2Clear, stating that they submitted the information of which a cryptographic message digest is given at the exact date and time to Info2Clear. The certificate therefore constitutes proof of possession of certain intellectual property, which can be used in disputes regarding plagiarism.

3.2. Sequence of events

The following list denotes a series of events that are followed when a publisher registers information (typically called 'an article') with Info2Clear, using the get-a-seal.com service.

3.2.1. Using web-access (get-a-seal.com)

- 1. The publisher points his browser to the http://www.get-a-seal.com site or follows the hyperlink to the site from the http://www.Info2Clear.com site.
- 2. The publisher enters the details of the article: Its author, the description (i.e. title), a set of keywords, the type of document (text, photograph, audio, video, ...)
- 3. The publisher enters a reproduction profile that determines if and when the information can (or cannot) be sold and if so, at which price. The reproduction profile also determines a number of price categories for which reproduction rights are for sale. Each category has its own pricing table. Categories can be freely defined by the publisher. They could e.g. be 'reproduction in print for

commercial use', 'reproduction in print for non-profit use', 'reproduction on the web for commercial use', etc...

In order to make it easier for publishers to manage the reproduction profiles, the publisher can create a number of standard reproduction profile templates. The publisher can select one of these templates to base the reproduction profile on The profile for the article is then copied from the template and -if necessaryedited further by the publisher.

- 4. The article is uploaded by the publisher to the website using HTTP POST.
- 5. If the publisher is known and has a sound credit record, a record is logged in the billing database, which will result in an invoice at the end of the month. If the publisher is not known, or if the publisher does not have a clean credit record, the publisher will be redirected to an on-line credit card payment page. The process only continues when the on-line payment transaction was accepted by the on-line payment service.
- 6. The publisher receives an overview of the submitted article, its cryptographic message digest and a notification that the article was accepted for registration.
- 7. The article is stored at Info2Clear. A publishing certificate is generated that contains the article's message digest, a timestamp and is signed with Info2Clear's private key.
- 8. The publishing certificate is sent to the publisher using e-mail. The e-mail also contains a fragment of HTML code, which the publisher can paste in his web pages or e-zines. The HTML fragment is a get-a-copy icon and hyperlink that provides a link to the get-a-copy page for this article, on which third parties can purchase the reproduction rights to this article. The hyperlink in this fragment uses the message digest of the article.
- 9. If allowed so by the Publishing Profile, a web page is built to represent the article. This web page can be used by the Info2Clear search-engine or to grant potential buyers of the reproduction rights a preview of the information. In case the article was a photograph, the shown information can be a thumbnail version, a stamped version, the complete photograph, an abstract of the photograph, a (restricted) PDF version or no information at all.

13-04-00

In case the article was text, an abstract can be given, the complete text, only the first n lines of the article, a (restricted) PDF version or no information at all. In case the article was audio, a reduced quality version, a shortened version, the integral version or none can be given, again, according to the publisher's wishes as defined in the Publishing Profile.

10. A copy of the publishing certificate is kept at Info2Clear.

3.2.2. Using the publishing agent

- 1. The publisher uses a special 'agent' (computer application) to register information with Info2Clear.
- 2. The agent allows the publisher to select one or more articles on his computer system and submit them for registration. The publisher can then set the Publishing Profile for this article, optionally using the locally stored Reproduction Profile Templates.
- 3. The agent software immediately calculates the Cryptographic Message Digest for the article, allowing the publisher to share hyperlinks to the preview information or to the get-a-copy.com reproduction rights selling web page.
- 4. The agent sends the article and its Reproduction Profile to Info2Clear. The agent uses error detection and retry scheduling to send the article and Publishing Data to Info2Clear. The article and Reproduction Profile are encrypted to ensure confidentiality.
- 5. At Info2Clear, the publisher is checked for credit worthiness and if the check is successful, a publishing certificate is generated. The procedure in section 3.2.1. starting at step 7 is then followed.

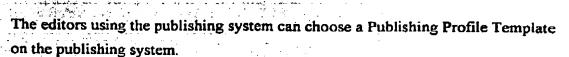
3.2.3. Using the Info2Clear Publishing Proxy

1. On-site at the publisher's, an Info2Clear Publishing Proxy machine is installed.

The Publishing Proxy is connected directly to the publisher's publishing system.

Entre Live





- 2. When the Info2Clear Publishing Proxy (IPP) receives an article, the Publishing Profile is generated using the selected Template. A Cryptographic Message Digest is calculated. An HTML fragment is created on the Publishing Proxy that can be used to paste on the HTML pages in order to provide a hyperlink to the get-a-copy.com pages, which third parties can use to purchase reproduction rights.
- 3. The article and the Publishing Profile are sent to Info2Clear, using retry scheduling, error detection and IPSec encryption.
- 4. At Info2Clear, the publisher is checked for credit worthiness and if the check is successful, a publishing certificate is generated. The procedure in section 3.2.1. is then followed, starting with step 7.



4. Get-a-copy.com

4.1. Introduction

The get-a-copy com service allows third parties to purchase limited reproduction rights for articles that were registered by publishers on the Get-a-seal.com service. An article can be any sort of information: A text, a photographic image, audio, video or any other form of digital information.

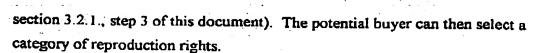
The buyer of reproduction rights will receive a Copyright Certificate. The Copyright Certificate is time stamped and contains the number of allowed reproductions, the usage category for the reproductions, the identification of the article (Message Digest) an identification of the Original Publisher and copyright holder and the level of certainty with which Info2Clear has established the identity of the publisher.

The copyright certificate constitutes proof for the buyer that certain -limitedreproduction rights were purchased from the original publisher.

4.2. Sequence of events

- 1. The potential buyer of reproduction rights is transferred to the purchasing page, by means of a URL containing the Cryptographic Message Digest of the article. Typically, (but not necessarily) this URL could be a hyperlink on the publisher's website, provided in the HTML fragment that Info2Clear provided to the publisher, as described in section 3.2.1., step 8 and section 3.2.3., step 2 of this document.
- 2. The purchasing page clarifies to the potential buyer, that this page can be used to purchase the reproduction rights to this page. It also illustrates with a few example cases why this can be necessary. It provides the potential buyer with an overview of the categories for which the reproduction rights are for sale. (See

36 ID 40U360



- 3. The potential buyer is presented with a price table for the selected category. The price table displays the price per reproduction, for a certain range of desired reproductions: This allows for a price per reproduction that decreases for larger numbers of desired reproductions.
- 4. The buyer can enter the desired number of reproductions. He will then be presented with a credit card information entry page or alternatively, when then buyer is a subscriber, with a confirmation page showing the credits that will be deducted from his account, and the amount of credits left.
- 5. A Copyright Certificate is generated, stating the number of reproductions paid for, the category of reproduction chosen by the buyer, the identity of the buyer, the identity of the publisher and the level of certainty with which the latter identity was checked by Info2Clear. This certificate is signed with one of Info2Clear's private keys, ensuring that this certificate constitutes proof of purchase for the buyer. The certificate is sent to the buyer using e-mail. A copy is kept at Info2Clear. The certificate can be verified on-line, as described in chapter 5 of this document.
- 6. An HTML fragment is generated that contains an icon and a hyperlink to the online version of the Copyright Certificate kept at InfoClear. The buyer can add the HTML fragment to the reproductions he made, in order to prove his rights for reproduction. The HTML fragement is sent to the buyer using e-mail.
- 7. The buyer is transferred back to the page where he followed the initial hyperlink to the purchasing page.





5. Certificates

Both the Info2Clear Publishing Certificate (which is handed to the publisher as a time stamped proof of the electronic publishing of an article) and the Info2Clear Copyright Certificate (which constitutes proof of purchase of reproduction rights), are XML formatted certificates, signed with an Info2Clear private key, in order to guarantee the authenticity of the certificates.

The signature covers the content in the <Content> element of certificate. This element contains a human readable text, some XML datafields describing the article, its author and the validity period of the certificate (and in case of the copyright certificate, also the buyer and the granted usage specifications). Only the non-white space in the <Content> field is signed: White space such as spaces, tabs, linefeeds, carriage-returns are not included in the signature calculation, in order to allow automatic word-wrap of the certificate.

Certificates can be verified on-line on the Info2Clear website. The on-line verification procedure is protected by SSL transmissions (using HTTPS), thus guaranteeing that the verification procedure itself is authentic. Therefore, the chain of authentication is as follows: Info2Clear certificates are verified by Info2Clear, acting as a trusted third party. The authenticity of the connection to Info2Clear is ensured by VeriSign as the Certificate Authority of the InfoClear WWW PKI key pair. VeriSign therefore acts as a trusted third party to guarantee the authenticity of the connection to Info2Clear.



Legenda of used symbols

Webpage: ASP or HTML, on one of our servers

Initial Purchase ¹ Link (ASP)

Publisher's site

Webpage: ASP or HTML on another server somewhere on the internet

ArticleData Component

Component: Can be (D)COM component, can be in-process, out-of-process or on another machine



XML Data fles

Database: Can be both an XML file or a relational database.

PurchaseCopyright



Function call or used interface

--- PurchaseResuft

Result of a functionical! (return value). Always comes logether with the previous arrow.

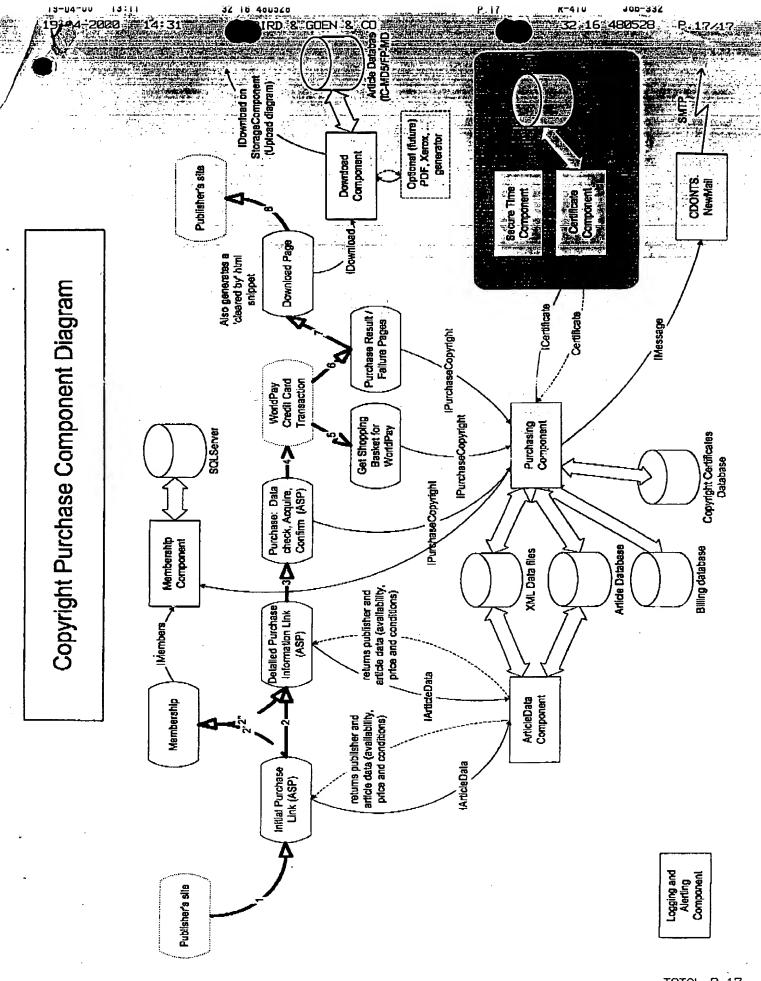


Logical series of events, according to the number in the arrow. E.g., a user going from one web-page to another



A 'uses' relation: E.g., a component that uses a database.

A protected item. E.g. a series of components, located on a protected (secured) machine.



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